

Storm Data and Unusual Weather Phenomena - December 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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ILLINOIS, South

(IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC

12/01/12 00:00 CST	0	Drought
12/31/12 23:59 CST	0	

Slow improvement continued in long-term drought conditions. Rainfall was below normal during the month of December, but this deficit was partially offset by low evaporation rates from colder winter weather. Moderate drought conditions persisted throughout December along and south of a line from Anna to Vienna and Golconda. The drought ended along and north of a Marion to Harrisburg line. Impacts were very few, since the growing season was over for most crops. Farm ponds used for irrigating livestock remained low. At the Carbondale airport, December monthly rainfall was about an inch below normal. The drought began in May and continued into January.

(IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI

12/07/12 03:00 CST	0	Dense Fog
12/07/12 09:00 CST	0	

Widespread dense fog blanketed most of southern Illinois except for a few locations such as Mount Vernon and Metropolis. Visibility was reduced to one-quarter mile or less. The dense fog was associated with light winds and high humidity in the vicinity of a warm front that was draped across southern Illinois.

WHITE COUNTY --- CARMi [38.08, -88.17]

12/09/12 17:00 CST	0	Heavy Rain
12/09/12 18:45 CST	0	Source: Trained Spotter

Minor flooding occurred as a result of between two and 2.5 inches of rain. Several streets were water-covered.

A strong cold front moving across the southern Plains and Mid-Mississippi Valley served as the focus for thunderstorm development. Unseasonably moist air characterized by surface dew points in the mid 60's helped generate thunderstorms with heavy rain.

(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI

12/20/12 08:00 CST	18K	Strong Wind (MAX 48 kt)
12/20/12 19:00 CST	0	

(IL-Z094) MASSAC

12/20/12 08:00 CST	1K	High Wind (MAX 51 kt)
12/20/12 19:00 CST	0	

A strong low pressure system tracked northeast across the St. Louis area into northern Illinois. Strong west winds developed behind a cold front that swept across southern Illinois. West winds were sustained from 20 to 35 mph, with frequent gusts from 40 to 55 mph. Peak wind gusts that were clocked at airport locations included: 48 mph at Mount Vernon and Cairo, 51 mph at Carbondale and Carmi, 45 mph at Marion, 46 mph at Harrisburg, and 50 mph at Mount Carmel. A trained spotter at Metropolis measured a gust to 59 mph. Tree limbs were blown down at isolated locations. A whole tree was blown down in Herrin.

(IL-Z087) GALLATIN, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC

12/24/12 04:00 CST	0	Dense Fog
12/24/12 09:00 CST	0	

Widespread dense fog blanketed the Ohio River counties of southern Illinois. Visibility was reduced to one-quarter mile or less. The dense fog was associated with light winds and high humidity in the vicinity of a weak low pressure center over western Kentucky.

(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC

12/26/12 00:00 CST	0	Winter Storm
12/26/12 10:00 CST	0	

Storm Data and Unusual Weather Phenomena - December 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Near-blizzard conditions affected a large part of southern Illinois. The swath of the heaviest snow and near-blizzard conditions excluded only the far southeast counties of Massac and Hardin, as well as the far northwest counties of Jefferson and Perry. Elsewhere, visibility dropped to one-quarter to one-half mile for several hours in heavy snow. Winds frequently gusted from 25 to 35 mph. Total snowfall amounts were around a foot from northern Pope and Johnson Counties, northward across Marion and Harrisburg, to the Wabash Valley region, including Mount Carmel and Albion. Isolated amounts to 20 inches were observed near Albion. Snowfall amounts across the rest of southern Illinois were from 6 to 10 inches, except for just 4 or 5 inches in the southernmost county of Massac. The wet, heavy consistency of the snow minimized drifting and blowing of the snow. Some drifts from two to three feet were reported. The snow fell at a very heavy rate in localized bands, in some cases accompanied by thunder and lightning. Snowfall rates in the heaviest bands were from two to three inches per hour. Road conditions were snow-covered and hazardous. Snow plows were able to keep one lane passable on most major highways. Smaller rural roads were passable only in 4-wheel drive vehicles in the area of heaviest snow. Isolated power outages occurred due to the combination of strong winds and heavy wet snow on power lines. A surface low pressure center moved northeast across Middle Tennessee. Strong winds and colder air on the northwest side of the low created a dangerous winter storm.

(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION

12/28/12 17:00 CST	0	Winter Storm
12/29/12 03:00 CST	0	

(IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC

12/28/12 17:00 CST	0	Winter Weather
12/29/12 13:00 CST	0	

A winter storm dumped 4 to 7 inches of snow across much of southern Illinois. The exception was in the Ohio River Valley from Cairo to Metropolis and Golconda, where only 1 to 3 inches fell. In the area of heaviest snow, snowfall rates were from 1 to 2 inches per hour. Roads were snow-covered and hazardous. The wet, heavy snow coated trees and power lines. Specific snowfall totals included: 5 inches at Mount Vernon and Marion, 6.5 inches at Mount Carmel, and 4 inches at Anna. This new snow, which fell on top of snow from the Christmas night storm, brought total snow depths to as high as 15 inches from Marion to Mount Carmel. A compact and strong upper-level disturbance moved rapidly east-northeast from Oklahoma. Precipitation rates increased ahead of this disturbance. Very weak instability in the mid-levels of the atmosphere enhanced snowfall rates, with embedded bands of heavy snow. Due to the quick progression of the system, the duration of heavy snow was no more than two to three hours at any given location.

(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI

12/30/12 04:00 CST	0	Dense Fog
12/30/12 09:00 CST	0	

Widespread dense fog blanketed most of southern Illinois, except for the Ohio River counties of Hardin, Massac, and Pope. Visibility was reduced to less than one-quarter mile. The dense fog was caused by clear and calm conditions over deep snow cover.

INDIANA, Southwest

(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY

12/07/12 03:00 CST	0	Dense Fog
12/07/12 09:00 CST	0	

Widespread dense fog blanketed parts of southwest Indiana, mainly north and west of Evansville. Visibility was reduced to one-quarter mile or less. The dense fog was associated with light winds and high humidity in the vicinity of a warm front that was draped across southwest Indiana.

(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER

12/20/12 10:00 CST	6K	Strong Wind (MAX 46 kt)
12/20/12 20:00 CST	0	

A strong low pressure system tracked northeast across the St. Louis area into northern Illinois. Strong west winds developed behind a cold front that swept across southwest Indiana. West winds were sustained from 20 to 35 mph, with frequent gusts from 40 to 50 mph. The peak wind gust that was clocked at the Evansville airport was 53 mph. A trained spotter at Newburgh measured a gust to 47 mph. A wind gust to 45 mph was measured at Oakland City in Gibson County. Isolated power outages were reported in the Evansville area.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER				
	12/24/12 04:00 CST		0	Dense Fog
	12/24/12 09:00 CST		0	
<p>Widespread dense fog blanketed parts of southwest Indiana, mainly along and south of Interstate 64. Visibility was reduced to one-quarter mile or less. The dense fog was associated with light winds and high humidity in the vicinity of a weak low pressure center over western Kentucky.</p>				
(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK				
	12/26/12 02:00 CST		0	Winter Storm
	12/26/12 10:00 CST		0	
(IN-Z088) SPENCER				
	12/26/12 04:00 CST		0	Winter Weather
	12/26/12 10:00 CST		0	
<p>Near-blizzard conditions affected parts of southwest Indiana. The swath of the heaviest snow and near-blizzard conditions occurred north and west of the city of Evansville, where visibility dropped to one-quarter to one-half mile for several hours in heavy snow, and total snowfall amounts were around a foot. Snowfall amounts across the rest of southwest Indiana were from 6 to 10 inches, except for just 1 to 3 inches in the easternmost county of Spencer. Rain changed to snow from northwest to southeast, resulting in the highest accumulations north and west of Evansville. A quarter to half inch of sleet fell during the changeover in some places. Winds frequently gusted from 25 to 35 mph across all of southwest Indiana. The wet, heavy consistency of the snow minimized drifting and blowing of the snow. Some drifts from two to three feet were reported. The snow fell at a very heavy rate in localized bands, in some cases accompanied by thunder and lightning. Snowfall rates in the heaviest bands were from two to three inches per hour. Road conditions were snow-covered and hazardous. Snow plows were able to keep one lane passable on most major highways. However, State Route 165 was reported to be impassable southwest of Owensville. Isolated power outages and downed tree limbs occurred due to the combination of strong winds and heavy wet snow. A state of emergency was declared in Posey County. A surface low pressure center moved northeast across Middle Tennessee. Strong winds and colder air on the northwest side of the low created a dangerous winter storm.</p>				
(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK				
	12/28/12 19:00 CST		0	Winter Storm
	12/29/12 06:00 CST		0	
(IN-Z088) SPENCER				
	12/28/12 20:00 CST		0	Winter Weather
	12/29/12 06:00 CST		0	
<p>A winter storm dumped 6 to 8 inches of snow north of Interstate 64, 4 to 6 inches along Interstate 64 and over most of Posey County, and 2 to 4 inches south of Interstate 64 to the Ohio River. In the area of heaviest snow, snowfall rates were from 1 to 2 inches per hour. Roads were snow-covered and hazardous. The wet, heavy snow coated trees and power lines. Specific snowfall amounts included: 6.5 inches at Princeton in Gibson County, 6 inches at Winslow in Pike County, 4.5 inches in Evansville, and 2.5 inches at Rockport in Spencer County. This new snow, which fell on top of snow from the Christmas night storm, brought total snow depths to as high as 18 inches in Pike and Gibson Counties. A compact and strong upper-level disturbance moved rapidly east-northeast from Oklahoma. Precipitation rates increased ahead of this disturbance. Very weak instability in the mid-levels of the atmosphere enhanced snowfall rates, with embedded bands of heavy snow. Due to the quick progression of the system, the duration of heavy snow was no more than two to three hours at any given location.</p>				
(IN-Z081) GIBSON, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH				
	12/30/12 04:00 CST		0	Dense Fog
	12/30/12 09:00 CST		0	
<p>Widespread dense fog blanketed parts of southwest Indiana from Evansville north and west. Visibility was reduced to less than one-quarter mile. The dense fog was caused by clear and calm conditions over deep snow cover.</p>				

KENTUCKY, Southwest

(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCrackEN, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z018) HENDERSON

Storm Data and Unusual Weather Phenomena - December 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	12/01/12 00:00 CST		0	Drought
	12/31/12 23:59 CST		0	

Slow improvement continued in long-term drought conditions. Rainfall was slightly below normal during the month of December, but this deficit was partially offset by low evaporation rates from colder winter weather. All areas of severe drought were reclassified as moderate at the start of the month. Moderate drought conditions persisted throughout December west of Kentucky Lake. The drought ended along and east of Kentucky Lake. Impacts were very few, since the growing season was over for most crops. Farm ponds used for irrigating livestock remained low. At the Paducah airport, December monthly rainfall was about half to three-quarters of an inch below normal. The drought began in May and continued into January.

HOPKINS COUNTY --- MADISONVILLE [37.33, -87.50]

12/09/12 20:00 CST	0	Heavy Rain
12/09/12 21:00 CST	0	Source: Trained Spotter

Locally heavy rainfall of around an inch per hour caused some roads to become covered with water.

A strong cold front moving across the southern Plains and Mid-Mississippi Valley served as the focus for thunderstorm development. Unseasonably moist air characterized by surface dew points in the mid 60's helped generate thunderstorms with heavy rain.

(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD

12/20/12 09:00 CST	26K	Strong Wind (MAX 49 kt)
12/20/12 20:00 CST	0	

(KY-Z005) MCCRACKEN

12/20/12 09:00 CST	25K	High Wind (MAX 52 kt)
12/20/12 20:00 CST	0	

A strong low pressure system tracked northeast across the St. Louis area into northern Illinois. Strong west winds developed behind a cold front that swept across western Kentucky. West winds were sustained from 20 to 35 mph, with frequent gusts from 40 to 55 mph. Measured peak wind gusts included: 56 mph at Princeton, 54 mph at Paducah, 53 mph at Hopkinsville, 51 mph at Calhoun, 50 mph at Wingo (southwest Graves County), Murray, Madisonville, Central City, and Calvert City, 48 mph at Owensboro and Hickman, 47 mph near Cadiz and Morganfield, 46 mph near Marion, and 45 mph at Henderson. There was minor damage to some trees, and a few whole trees were uprooted. Tree limbs landed across roads at scattered locations in many counties. A large restaurant sign and a fence was blown over in Paducah. In McCracken County, at least a couple of houses lost shingles, and a newly built plastic greenhouse was destroyed. Two buildings at a community college in Paducah sustained moderate roof damage. Isolated power outages were reported in Union and Webster Counties. A metal awning was blown off a business in Sturgis in Union County.

(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCRACKEN, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN

12/24/12 04:00 CST	0	Dense Fog
12/24/12 09:00 CST	0	

Widespread dense fog blanketed most of western Kentucky with the exception of the Hopkinsville area and points east. Visibility was reduced to one-quarter mile or less. The dense fog was associated with light winds and high humidity in the vicinity of a weak low pressure center over western Kentucky.

(KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCRACKEN, (KY-Z007) LIVINGSTON, (KY-Z010) CRITTENDEN, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z018) HENDERSON

12/26/12 00:00 CST	0	Winter Storm
12/26/12 10:00 CST	0	

(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z006) GRAVES, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD

12/26/12 04:00 CST	0	Winter Weather
12/26/12 10:00 CST	0	

Anywhere from 1 to 5 inches of snow fell across western Kentucky. The heaviest amounts were along the Ohio River, from west of Paducah to Henderson. Snowfall amounts were only an inch from the Hopkinsville area, westward across Cadiz, to Eddyville and Benton.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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The Owensboro area also received an inch or so. The remainder of western Kentucky generally received two to four inches. Rain changed to snow from northwest to southeast, resulting in the highest accumulations near the Ohio River. Winds frequently gusted from 25 to 35 mph. The wet, heavy consistency of the snow minimized drifting and blowing of the snow. Road conditions were snow-covered and hazardous. Numerous minor accidents and slide-offs were reported. A surface low pressure center moved northeast across Middle Tennessee. Strong winds and colder air on the northwest side of the low created a dangerous travel conditions.

(KY-Z004) BALLARD, (KY-Z005) MCCRACKEN, (KY-Z007) LIVINGSTON, (KY-Z010) CRITTENDEN, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS

12/28/12 21:00 CST	0	Winter Weather
12/29/12 12:00 CST	0	

One to two inches of snow fell across the Ohio River counties of western Kentucky, as well as across Webster County. Specifically, 2 inches fell in Henderson and one inch in Paducah. A compact and strong upper-level disturbance moved rapidly east-northeast from Oklahoma. The heaviest precipitation and coldest air remained north and west of the Ohio River, therefore only light accumulations were observed in western Kentucky.

MISSOURI, Southeast

(MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID

12/01/12 00:00 CST	0	Drought
12/31/12 23:59 CST	0	

There was no appreciable change in long-term drought conditions during the month of December. Rainfall was below normal during the month of December, but this deficit was partially offset by low evaporation rates from colder winter weather. Moderate drought conditions persisted throughout the month south and west of a line from Cape Girardeau to Marble Hill. Impacts were very few, since the growing season was over for most crops. Farm ponds used for irrigating livestock remained low. At the Cape Girardeau and Poplar Bluff airports, December monthly rainfall was two to two and one-half inches below normal. The drought began in May and continued into January.

(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID

12/07/12 03:00 CST	0	Dense Fog
12/07/12 09:00 CST	0	

Widespread dense fog blanketed southeast Missouri. Visibility was reduced to one-quarter mile or less. The dense fog was associated with light winds and high humidity in the vicinity of a warm front that was draped across southeast Missouri.

RIPLEY COUNTY --- 7.9 N FLATWOODS [36.79, -90.73], 8.1 N FLATWOODS [36.80, -90.72]

12/09/12 15:12 CST	0.10M	Tornado (EF1, L: 0.40 mi , W: 150 yd)
12/09/12 15:13 CST	0	Source: Emergency Manager

Peak winds were estimated near 100 mph. The average path width was approximately 100 yards. Approximately 150 to 200 trees were snapped or uprooted. One barn and one outbuilding was destroyed. Square hay bales were blown up to 50 feet, and tin from the barn was lofted into nearby trees. A house lost a section of shingles and roof decking about six feet by six feet in area. The damage was near the intersection of State Highway K and County Road K-6, about 13 miles north-northeast of Doniphan.

BUTLER COUNTY --- ROMBAUER [36.85, -90.28]

12/09/12 16:10 CST	0	Hail (0.75 in)
12/09/12 16:10 CST	0	Source: Emergency Manager

A strong cold front moving across the southern Plains and Mid-Mississippi Valley served as the focus for thunderstorm development. Unseasonably moist air characterized by surface dew points in the mid 60's yielded a marginally unstable air mass, with mixed-layer cape values near 500 j/kg during the afternoon. Strengthening deep-layer southwesterly winds were supportive of isolated supercells and tornadoes.

(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z109) BUTLER, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID

12/20/12 08:00 CST	9K	Strong Wind (MAX 43 kt)
12/20/12 19:00 CST	0	

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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(MO-Z108) RIPLEY, (MO-Z110) STODDARD

	12/20/12 08:00 CST		5K	High Wind (MAX 52 kt)
	12/20/12 19:00 CST		0	

A strong low pressure system tracked northeast across the St. Louis area into northern Illinois. Strong west winds developed behind a cold front that swept across southeast Missouri. West winds were sustained from 20 to 35 mph, with frequent gusts from 45 to 55 mph. Measured peak wind gusts included: 49 mph at the Cape Girardeau airport and the Doniphan fire weather site, and 48 mph at the Poplar Bluff airport. An unofficial wind gust of 58 mph was measured in Doniphan. Shingles were blown off a roof in Bernie in Stoddard County. Some minor tree damage was reported at scattered locations. Power outages were caused by tree limbs on power lines in East Prairie in Mississippi County.

(MO-Z087) CAPE GIRARDEAU, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID

	12/24/12 04:00 CST		0	Dense Fog
	12/24/12 09:00 CST		0	

Widespread dense fog blanketed parts of southeast Missouri, mainly along and southeast of a line from Poplar Bluff to Cape Girardeau. Visibility was reduced to one-quarter mile or less. The dense fog was associated with light winds and high humidity in the vicinity of a weak low pressure center over western Kentucky.

(MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID

	12/25/12 22:00 CST		0	Winter Storm
	12/26/12 08:00 CST		0	

(MO-Z076) PERRY, (MO-Z086) BOLLINGER

	12/26/12 00:00 CST		0	Winter Weather
	12/26/12 08:00 CST		0	

Near-blizzard conditions affected a large part of southeast Missouri. Total snowfall amounts were generally from 4 to 9 inches, except only 2 or 3 inches from Marble Hill to Perryville and points northwest. For an hour or two, visibility dropped to one-quarter mile in heavy snow, and winds gusted from 35 to 45 mph. The wet, heavy consistency of the snow minimized drifting and blowing of the snow. Some drifts of two to three feet were reported. The snow fell at a very heavy rate in localized bands, in some cases accompanied by thunder and lightning. Snowfall rates in the heaviest bands were from two to three inches per hour. Road conditions were snow-covered and hazardous. Snow plows were able to keep one lane passable on most major highways. Isolated power outages occurred due to the combination of strong winds and heavy wet snow on power lines. A surface low pressure center moved northeast across Middle Tennessee. Strong winds and colder air on the northwest side of the low created a dangerous winter storm.

(MO-Z076) PERRY

	12/28/12 17:00 CST		0	Winter Storm
	12/29/12 00:00 CST		0	

(MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT

	12/28/12 17:00 CST		0	Winter Weather
	12/29/12 00:00 CST		0	

Accumulating snow fell across most of southeast Missouri except for the extreme southeast counties of New Madrid and Mississippi. The Perryville area received the highest amounts, from 5 to 6 inches. In the area of heaviest snow, snowfall rates were from 1 to 2 inches per hour. Specific snowfall amounts included: 3 inches in Cape Girardeau and 2.5 inches seven miles northwest of Poplar Bluff. Roads were snow-covered and hazardous. The wet, heavy snow coated trees and power lines. The precipitation began as a period of rain and sleet, especially from Poplar Bluff to Sikeston and points south. A compact and strong upper-level disturbance moved rapidly east-northeast from Oklahoma. Precipitation rates increased ahead of this disturbance. Very weak instability in the mid-levels of the atmosphere enhanced snowfall rates, with embedded bands of heavy snow. Due to the quick progression of the system, the duration of heavy snow was no more than two to three hours at any given location.